



Maths Assessment – Year 5

Name:

Band 5 Maths Assessment						
Autumn Term (Beginning)		Spring Term (Working Within)		Summer Term (Secure)	Greater Depth	
B	B+	W	W+	S	S+	
<p>Number and Place Value</p> <ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 (1 million) and say the value of each digit Read, write, order and compare numbers with up to three dp Identify and use thousandths and can explain how they relate to tenths and hundredths and their decimal equivalents SNPV–1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01. SNPV–2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning. SNPV–3 Reason about the location of any number with up to 2 decimal places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. SNPV–4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. SMD–1 X and ÷ nos (Including decimals) by 10 and 100; understand this as equivalent to making a no 10 or 100 times the size, or 1 tenth or 1 hundredth times the size Keep multiplying a number by 10 or 100 - to 1,000,000 and count back. Use negative numbers in context when looking at temperature or money; counting forwards or backwards through 0 Round n^s to 1,000,000 to nearest 10,100,1000,10,000 or 1000,000; round numbers with two decimal places Solve number and practical problems that involve ordering and comparing numbers up to 1,000,000, counting forwards or backwards in steps, negative numbers and rounding Add or subtract tenths, or whole numbers and tenths, mentally. Solve problems involving numbers with up to three decimal places Read Roman numerals to 1000 and recognise years. Recognise and describe linear number sequences. <p>Addition and Subtraction</p> <ul style="list-style-type: none"> + and - 2 and 3 digit numbers in my head, also increasingly large numbers Add and Subtract numbers with more than 4 digits using written methods Add and subtract decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and compliments of 1 Solve + and - problems needing more than one step and can work out which operation and method is the most suitable <p>Multiplication and Division</p> <ul style="list-style-type: none"> SMD–2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors. SNF–1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime (÷ by 2,3,5 and 7) and recall prime numbers up to 19. Recognise and use square numbers and cube numbers and the notation SMD–3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method. Multiply numbers with up to 4 digits by a two digit number (columnar) SNF–2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth) 		<p>Number and Place Value</p> <ul style="list-style-type: none"> Solve problems involving multiplication and division, including using factors and multiples, squares and cubes <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Continues to build on and apply previously taught concepts. <p>Properties of Shape and Geometry</p> <ul style="list-style-type: none"> Continues to build on and apply previously taught concepts <p>Multiplication and Division</p> <ul style="list-style-type: none"> SMD–4 Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context. <p>Fractions and Decimals</p> <ul style="list-style-type: none"> 5F–1 Find non-unit fractions of quantities. F–2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system 5F–3 Recall decimal fraction equivalents for 1/2, ¼, 1/5 and 1/10 and for multiples of these proper fractions. Compare and order fractions whose denominators are all multiples of the same number Find, name and write equivalent fractions of a given fraction including tenths and hundredths Identify mixed numbers and improper fractions and convert from one to another such as 2/5 + 4/5 = 1 1/5. Add and subtract fractions whose denominators are all multiples of the same number (and fractions with denominators that are the same). Multiply proper fractions by whole numbers using objects and pictures. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates Read and write decimal numbers as fractions such as 0.71 = 71/100 <p>Measurement</p> <ul style="list-style-type: none"> SNPV–5: To convert between different forms of metric measurement, eg. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram, litre and millilitre, including using common decimals and fractions. 5G–2 Compare areas and calculate the area of rectangles (including squares) using standard units. Measure and calculate perimeter of composite rectilinear shapes in cm and m. Understand and compare equivalences between metric units and common imperial units. These might include: inches, pounds or pints. Use all four operations to solve problems involving measure, eg length, mass, volume using decimal notation including scaling. Estimate volume by using cm³ blocks to build cuboids (including cubes) and capacity by using water and different containers 		<p>Number and Place Value</p> <ul style="list-style-type: none"> Continues to build on and apply previously taught concepts. <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Continues to build on and apply previously taught concepts. <p>Properties of Shape and Geometry</p> <ul style="list-style-type: none"> Tell the difference between regular and irregular polygons, I can do this using reasoning about equal sides and angles Identify 3D shapes, including cubes and other cuboids, from 2D representations (nets) 5G–1 Compare angles, estimate (acute, obtuse and reflex) and measure angles in degrees (°) and draw angles of a given size. Identify other multiples of 90° Identify angles at a point and one whole turn Identify angles at a point on a straight line and half a turn (total 180°) Use the properties of rectangles to find related facts, missing lengths and missing angles Measure lines to the nearest mm and measure with a protractor. Draw given angles and measure them in degrees Identify, describe and represent the position of a shape following a reflection or translation. I can use mathematical vocabulary to explain this and I know that the shape has not changed – link this to co-ordinates. <p>Multiplication and Division</p> <ul style="list-style-type: none"> Continues to build on and apply previously taught concepts. <p>Fractions and Decimals</p> <ul style="list-style-type: none"> Identify the percent symbol (%) and how it relates to parts per hundred, hundredths and decimals Solve problems which require knowing % and dec. equivalents of ½, ¼, 1/5, 2/5, 4/5 & fractions with a denominator of a multiple of 10 or 25. <p>Measurement</p> <ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables <p>Statistics</p> <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph 		<ul style="list-style-type: none"> Solve 2-step problems, independently keeping a view of ‘the bigger picture’. Solve problems that involve more than one area of maths (eg. area and scaling) Explain how a multi-step problem can be solved, using concrete materials and pictorial representations (including bar models). Notice and explain the most efficient way of approaching an arithmetic question. In independent arithmetic tests, calculate with fluency and confidence. Consistently misses very few marks.